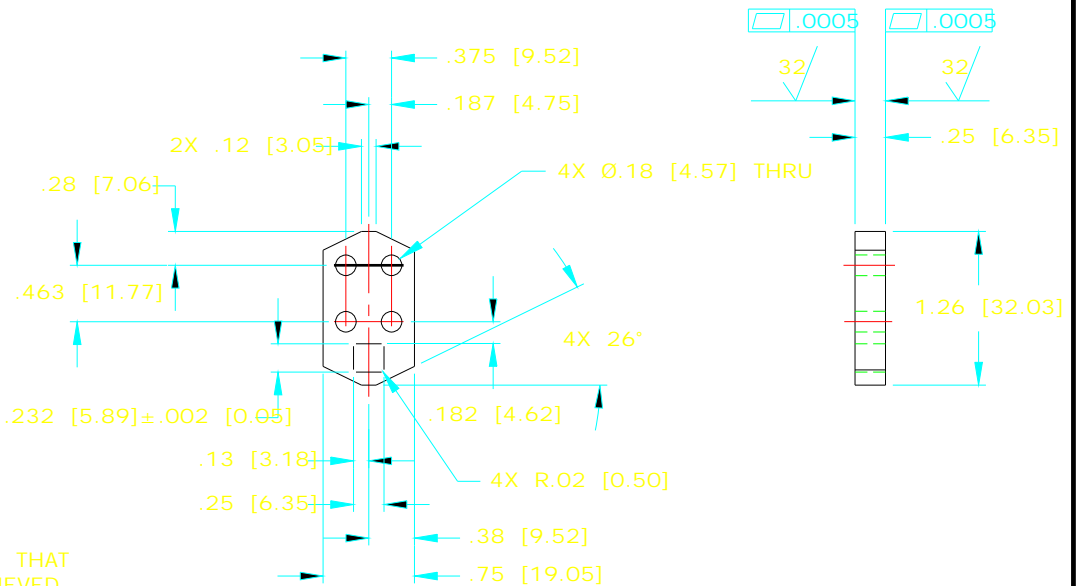


NOTES:

1. TUNGSTEN ALLOY OF 95% TUNGSTEN OR MORE WITH REMAINDER OF NICKEL AND IRON PER MIL- T- 21014D CLASS 3, UHV GRADE
2. THIS IS A ULTRA- HIGH VACUUM COMPONENT (UHV)
3. WHEN MACHINING VACUUM PARTS, USE OF SILICONE AND SULPHUR- BASED CUTTING FLUIDS IS PROHIBITED. USE ONE OF THE FOLLOWING:
 - A) CIMCOOL 5 STAR 49
 - B) TRIM SOL
4. ALL SURFACES MUST BE MACHINED FOR CLEAN UP
5. FINISHING: WHEN MACHINING VACUUM PARTS USE OF ABRASIVE PAPER OR SANDING DISCS, BUFFING OR POLISHING COMPOUNDS, OR RESIN- BONDED GRINDING WHEELS IS PROHIBITED
6. CLEANING: THE COMPONENT MUST BE CLEANED SUCH THAT A UHV PRESSURE OF 1×10^{-9} TORR CAN BE ACHIEVED
7. HANDLING: THE COMPONENTS SHALL BE HANDLED WITH WHITE SILK GLOVES AND WRAPPED WITH ALUMINUM FOIL TYPE DRY ANNEAL AND UNDER CLEAN ROOM CONDITIONS
8. DIMENSIONS IN [] ARE MILLIMETERS AND FOR REF. ONLY

REF. SOURCE

MITEK METALS, INC.
1340 NORTH SENATE AVE.
INDIANAPOLIS, IN 46202
TEL: 1- 317- 637- 3574
FAX: 1- 317- 633- 7224



ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC.	QTY
PARTS LIST				
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		LOG NUMBER P4310103- 00		
TOLERANCES		THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY		
DECIMALS	ANGULAR	ADVANCED PHOTON SOURCE		
.X ± .1 [2.5]	± 0°30'	P4- 30 INTEGRAL SHUTTER		
.XX ± .01 [0.25]		FOR 4- ID- A		
.XXX ± .005 [0.13]		UNDULATOR STOP		
SURFACE ROUGHNESS 125/		RADIATION GUARD		
REMOVE ALL BURRS AND BREAK SHARP EDGES .03 MAX.		SCALE 1:1		
SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46		SIZE		
DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14		DRAWING NUMBER		
DO NOT SCALE DRAWING		P4- 310103- 00		
MATERIAL SEE NOTE #1		SHEET 1 of 1		

SYM	CHANGE DESCRIPTION	BY	CHKD	DATE
	REVISIONS			